

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.5300001/RWE/AGUAPPLICATION NO.
09/927,436APPLICANT
Tadayoni-Rebek et al.FILING DATE
August 13, 2001GROUP
~~1645~~

1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	5,616,228	04/01/1997	Nasu et al.	204	603	09/28/1995
	AB1	5,643,758	07/01/1997	Guan et al.	435	69.7	01/12/1995
	AC1	5,834,247	11/10/1998	Comb et al.	435	69.7	03/05/1997
	AD1	5,992,858	07/13/1999	Rothschild et al.	536	24.1	06/27/1997
	AE1	6,013,165	01/11/2000	Wiktorowicz et al.	204	456	05/22/1998
	AF1	6,043,025	03/28/2000	Minden et al.	435	4	10/10/1997
	AG1	6,045,995	04/04/2000	Cummins et al.	435	6	08/24/1994
	AH1	6,184,355 B1	02/06/2001	James, Jr. et al.	530	370	07/21/1999
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WO 96/34878	11/07/1996	WIPO			Yes No
	AM1	WO 01/07920	02/01/2001	WIPO			Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>1</u>	Ayers, B. et al., "Introduction of Unnatural Amino Acids into Proteins Using Expressed Protein Ligation," <i>Biopolymers (Peptide Science)</i> 51:343-354, John Wiley & Sons, Inc. (February 1999).
	AS	<u>1</u>	Blaschke, U.K. et al., "Protein Engineering by Expressed Protein Ligation," <i>Meth. Enzymol.</i> 328:478-496, Academic Press (October 2000).
	AT	<u>1</u>	Camarero, J.A. et al., "Peptide Chemical Ligation Inside Living Cells: In Vivo Generation of a Circular Protein Domain," <i>Bioorg. Med. Chem.</i> 9:2479-2484, Elsevier Science Ltd. (September 2001).

EXAMINER

DATE CONSIDERED 11-5-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Cotton, G.J. and Muir, T.W., "Generation of a dual-labeled fluorescence biosensor for Crk-II phosphorylation using solid-phase expressed protein ligation," <i>Chem. & Biol.</i> 7:253-261, Elsevier Science Ltd. (March 2000).
	AS	2	Cotton, G.J. and Muir, T.W., "Peptide ligation and its application to protein engineering," <i>Chem. & Biol.</i> 6:R247-R256, Elsevier Science Ltd. (September 1999).
	AT	2	Cowburn, D. and Muir, T.W., "Segmental Isotopic Labeling Using Expressed Protein Ligation," <i>Meth. Enzymol.</i> 339:41-54, Academic Press (June 2001).

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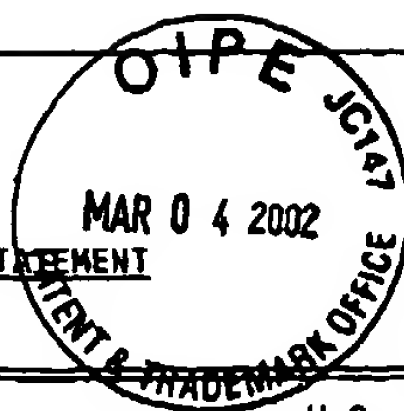
David L. Hester

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U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Dawson, P.E et al., "Synthesis of Proteins by Native Chemical Ligation," <i>Science</i> 266:776-779, American Association for the Advancement of Science (1994).
	AS	3	Dimitrov, S.I. and Wolffe, A.P., "Fine Resolution of Histones by Two-Dimensional Polyacrylamide Gel Electrophoresis: Developmental Implications," <i>Meth.: A Companion to Meth. Enzymol.</i> 12:57-61, Academic Press (1997).
	AT	3	Evans, T.C. et al., "The in Vitro Ligation of Bacterially Expressed Proteins Using an Intein from <i>Methanobacterium thermoautotrophicum</i> ," <i>J. Biol. Chem.</i> 274:3923-3926, The American Society for Biochemistry and Molecular Biology, Inc. (February 1999).

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David Lutter

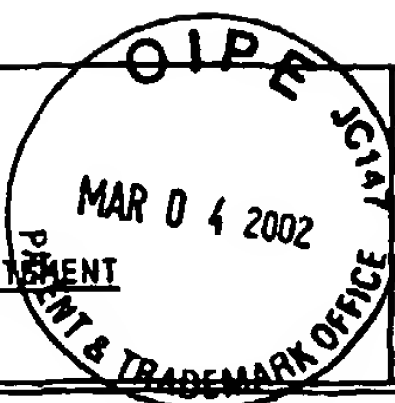
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Evans, T.C. et al., "The Cyclization and Polymerization of Bacterially Expressed Proteins Using Modified Self-splicing Inteins," <i>J. Biol. Chem.</i> 274:18359-18363, The American Society for Biochemistry and Molecular Biology, Inc. (June 1999).
	AS	<u>4</u>	Fehring, V. et al., "Physical markers for landmarking fluorescently stained gels that facilitate automated spot-picking," <i>Electrophoresis</i> 22:2903-2907, Wiley-VCH Verlag GmbH (August 2001).
	AT	<u>4</u>	Geoghegan, K.F. et al., "Dye-Pair Reporter Systems for Protein-Peptide Molecular Interactions," <i>Bioconjugate Chem.</i> 11:71-77, American Chemical Society (December 1999).

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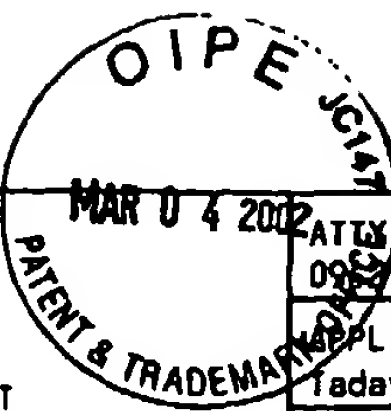
David Lutton

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09/27.5300001/RWE/AGU

 APPLICATION NO.
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Tadayoni-Rebek et al.

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1645

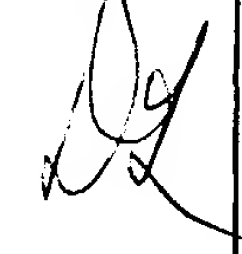
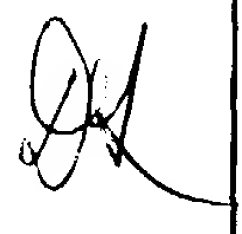

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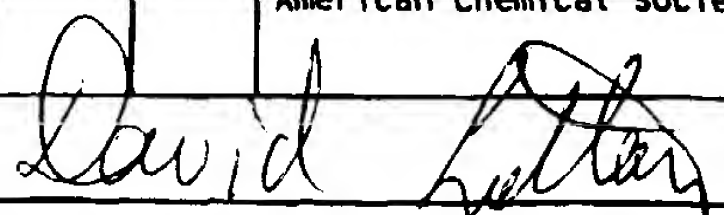
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Geoghegan, K.F. and Stroh, J.G., "Site-Directed Conjugation of Nonpeptide Groups to Peptides and Proteins via Periodate Oxidation of a 2-Amino Alcohol. Application to Modification at N-Terminal Serine," <i>Bioconjugate Chem.</i> 3:138-146, American Chemical Society (1992).
	AS	5	Low, D.W. et al., "Total synthesis of cytochrome b562 by native chemical ligation using a removable auxiliary," <i>PNAS</i> 98:6554-6559, The National Academy of Sciences of the USA (June 2001).
	AT	5	Lu, W. et al., "Comparative Total Syntheses of Turkey Ovomucoid Third Domain by Both Stepwise Solid Phase Peptide Synthesis and Native Chemical Ligation," <i>J. Am. Chem. Soc.</i> 118:8518-8523, American Chemical Society (1996).

EXAMINER



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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Muir, T.W. et al., "Expressed protein ligation: A general method for protein engineering," <i>PNAS</i> 95:6705-6710, The National Academy of Sciences of the USA (1998).
	AS	6	Roy, R.S. et al., "Expressed protein ligation to probe regiospecificity of heterocyclization in the peptide antibiotic microcin B17," <i>Chem. & Biol.</i> 6:789-799, Elsevier Science Ltd (October 1999).
	AT	6	Severin, K. et al., "Peptide Self-Replication via Template-Directed Ligation," <i>Chem. Eur. J.</i> 3:1017-1024, Wiley-VCH (1997).

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David Rutter

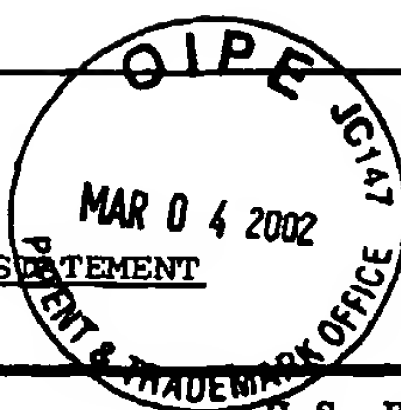
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Severinov, K. and Muir, T.W., "Expressed Protein Ligation, a Novel Method for Studying Protein-Protein Interactions in Transcription," J. Biol. Chem. 273:16205-16209, The American Society for Biochemistry and Molecular Biology, Inc. (1998).
	AS	2	Shimura, K. et al., "Synthetic oligopeptides as isoelectric point markers for capillary isoelectric focusing with ultraviolet absorption detection," Electrophoresis 21:603-610, Wiley-VCH Verlag GmbH (February 2000).
	AT	2	Shimura, K. and Kasai, K.-i., "Fluorescence-labeled peptides as isoelectric point (pI) markers in capillary isoelectric focusing with fluorescence detection," Electrophoresis 16:1479-1484, Wiley-VCH Verlag GmbH (1995).

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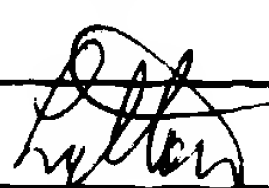
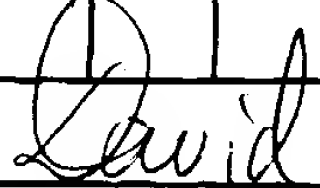
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Sillero, A. and Ribeiro, J.M., "Isoelectric Points of Proteins: Theoretical Determination," <i>Anal. Biochem.</i> 179:319-325, Academic Press, Inc. (1989).
	AS	8	Tolbert, T.J. and Wong, C.-H., "Intein-Mediated Synthesis of Proteins Containing Carbohydrates and Other Molecular Probes," <i>J. Am. Chem. Soc.</i> 122:5421-5428, American Chemical Society (May 2000).
	AT	8	Xu, R. et al., "Chemical ligation of folded recombinant proteins: Segmental isotopic labeling of domains for NMR studies," <i>PNAS</i> 96:388-393, The National Academy of Sciences of the USA (January 1999).

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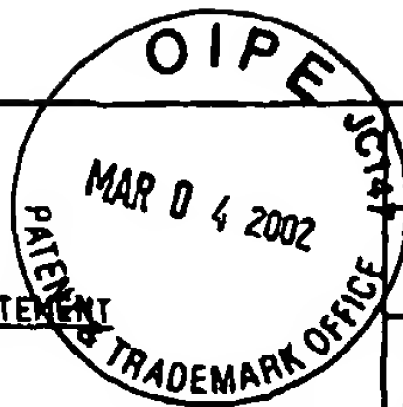


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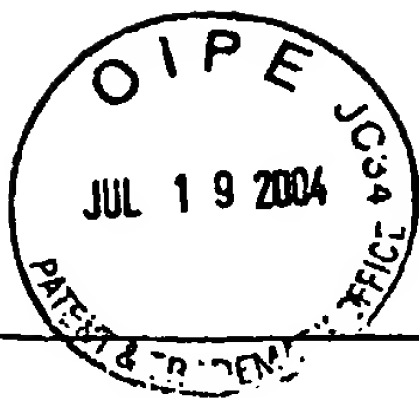
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	New England Biolabs 2000-01 Catalog, "IMPACT Vectors," pages 108, 142-144, New England Biolabs, Inc. (2000).
	AS	2	New England Biolabs 1998-99 Catalog, "IMPACT™ T7 System," pages 138-139, New England Biolabs, Inc. (1998).
	AT		
EXAMINER			
			DATE CONSIDERED 11-5-04

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FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.5300001/RWE	APPLICATION NO. 09/927,436
	APPLICANTS Tadayoni-Rebek <i>et al.</i>	
	FILING DATE August 13, 2001	GROUP 1653

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA2	5,866,683	02/02/1999	Shimura <i>et al.</i>	530	328	03/29/1996
	AB						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	10	Kobayashi, H. <i>et al.</i> , "Evaluation of pH gradient formation of carrier ampholytes with synthesized isoelectric point markers in capillary isoelectric focusing," <i>J. Chromatography</i> 772:137-144, Elsevier Science B.V. (1997)
EXAMINER	DATE CONSIDERED 11-5-04		

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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August 13, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1						
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	AH1						
	AI1	5,316,908	05/31/1994	Carlson et al. 435	006		07/11/1990
	AJ1	5,449,758	09/12/1995	Hartley	530	350	12/02/1993
	AK1	5,834,201	11/10/1998	Hartley	435	006	07/11/1997

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO N
	AL1						Yes No
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	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
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	AT	2	Hartley, J. L., U.S. Application No. 09/666,890, filed September 20, 2000 (unpublished).
EXAMINER	David L. Hutter		
	DATE CONSIDERED 11/5/04		

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	AL2						Yes No
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	AP2						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>DL</i>	AR	<u>10</u>	Hartley, J. L., U.S. Application No. 10/410,176, filed April 10, 2003 (unpublished).
<i>DL</i>	AS	<u>10</u>	Tadayoni-Rebek et al., U.S. Application No. 10/369,117, filed February 20, 2003 (unpublished).
	AT	<u>10</u>	

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Electronic Information Disclosure Statement



Highly homogeneous molecular markers for electrophoresis

Application:



09/927436

Confirmation:

6227

Applicant(s):

Mitra Tadayoni-Rebek

Docket Number:

0942.5300001

Group Art Unit:

Examiner:

search string:

(5922858).pn.

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P01	5922858	1999-07-13		Rothschild et al.	536	24.1

Signature

Examiner Name	Date
	11-4-04